API-Post Submitting Accessions

1. Request an API-enable user for retrieving test results by emailing info@wvdl.wisc.edu. Please include a new email for the API enabled user. This user will only be used for API access.

2. Once you receive your login for your user, reset your password by navigating to https://dev.wvdl.labs.tracefirst.com and https://wvdl.labs.tracefirst.com and selecting "Forgot your password?". This needs to be done for both dev and productions environments.

3. Once you have received your account and password, you can navigate to https://dev.wvdl.labs.tracefirst.com/api_docs/index.html. This is the REST API interface.

   We ask that all testing and development is performed within the DEV environment prior to moving to production. If there is not a version of your client account within DEV, we can give access to a test account for this purpose.

   When your code is ready for production, the URLs are:
   https://wvdl.labs.tracefirst.com
   https://wvdl.labs.tracefirst.com/api_docs/index.html

   NOTE: All responses returned are in JSON format.

4. Prior to starting this process, you will require a lab_id and a client_id.
   a. Values for lab_id can be found on the last page of this document
   b. The client_id can be obtained by logging into the Client Portal. Once there, click on your user in the upper right corner and select 'Select Client'. This will take you to a client selection page. The client_id value can be found by examining or hovering over the client link. Please contact info@wvdl.wisc.edu if you need help obtaining client id(s).

5. To get the test_schedule_id and specimen_type_id fields, make a Curl (or similar) request to the following URLs:
   a. Development
      i. https://www.wvdl.wisc.edu/apifiles/dev/specimen_types.json
      ii. https://www.wvdl.wisc.edu/apifiles/dev/test_schedules.json
   b. Production
      i. https://www.wvdl.wisc.edu/apifiles/prod/specimen_types.json
      ii. https://www.wvdl.wisc.edu/apifiles/prod/test_schedules.json
6. **NOTE:** This data is in JSON format and is updated nightly.

   To have access to any of the endpoints, you will need to create a token via a GET request to /api/v1/access_control/login. This will return the token needed for any other requests.

7. To start a new accession, submit a POST request to /api/v1/accessions. This request requires "accession[lab_id]" and "accession[client_id]" being set using the values gathered in the earlier step.

   If successful, this request will return a JSON response with a 201 response code and an "id" value that will be required for the next step.

8. To add an animal to the new accession, submit a POST request to /api/v1/accessions/new_animal. This request requires the following values:

   "animal[accession_id]" = <"id" from previous POST request>
   "animal[animal_tags][][tag_type_id]" = 16 → This should always be '16'
   "animal[animal_tags][][num]" = "Name, ID, or other identifier" → This is an alphanumeric string

   <u>**NOTE**: All data for animal[animal_tags] requires the additional "[]" for them to function.</u>

   If successful, this request will return a JSON response with a 201 response code and an "id" value that will be required for the next step.

9. To add a specimen to the new animal, submit a POST request to /api/v1/accessions/new_specimen. This request requires the following values:

   "specimen[animal_id]" = <"id" from previous POST request>
   "specimen[specimen_type_id]" = ###
   a. This is the "id" from the specimen_types.json file in an earlier step. It is also linked to on the last page of this document.

      If successful, this request will return a JSON response with a 201 response code and an "id" value that will be required for the next step.

10. To add a test to the new specimen, submit a POST request to /api/v1/accessions/add_tests_to_specimen. This request requires the following values:

    "specimen_id" = <"id" from previous POST request>
    "test_schedule_ids" = "####"

    a. This is the "id" from the test_schedules.json file in an earlier step. It is also linked to on the last page of this document.

    NOTE: This can be a comma-separated list of ids to add more than one test at a time.

    If successful, this request will return a JSON response with a 201 response code.

Useful Endpoints/Notes

- **Lab IDs**
  - Madison = 1
  - Barron = 2

- **Specimen type IDs**
  - specimens > id
  - Development – https://www.wvdl.wisc.edu/apifiles/dev/specimen_types.json
  - Production – https://www.wvdl.wisc.edu/apifiles/prod/specimen_types.json

- **Test schedule IDs**
  - tests > schedules > id
  - Development – https://www.wvdl.wisc.edu/apifiles/dev/test_schedules.json
  - Production – https://www.wvdl.wisc.edu/apifiles/prod/test_schedules.json

- **CREATE A TOKEN (GET)**
  - /api/v1/access_control/login

- **CREAT A NEW ACCESSION (POST)**
  - /api/v1/accessions

- **ADD ANIMAL TO AN ACCESSION (POST)**
  - /accessions/new_animal
    - Use the tag_type_id value of '16':
      animal[animal_tags][][tag_type_id] = 16
    - Please note that the extra '[]' in the animal[animal_tags] entry is required.

- **ADD SPECIMEN TO AN ANIMAL (POST)**
  - /api/v1/accessions/new_specimen

- **ADD TEST(S) TO A SPECIMEN (POST)**
  - /api/v1/accessions/add_tests_to_specimen
    - NOTE: This can use a comma separate list of ids to add more than one test at a time.